SecurityMan®

LCDDVR4 User's Manual

2-IN-1 4-CHANNEL DIGITAL VIDEO RECORDER AND 10.2" LCD MONITOR

Available models with hard drive:
LCDDVR4-80 (with 80GB SATA HD)
LCDDVR4-320 (with 320GB SATA HD)

Copyright Notice

This manual is furnished under license and may be used or copied only in accordance with the terms of such license. Except as permitted by such license , no part of this publication may be reproduced , stored in a retrieval system , or transmitted , in any form or any means , electronic , mechanical . Recording, or otherwise, including translation to another language or format, without the prior written permission of SecurityMan. The content of this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by SecurityMan. SecurityMan assumes no responsibility or liability for any errors or inaccuracies that may appear in this book. All other product names, trademarks and registered trademarks in this document are the properties of their respective holders.

FCC Information

Notes on FCC's "Consistent Statement of Information" This product meets the requirements specified in Part 1 5 of FCC Regulation. Operation rests with the following two conditions:

(1) The equipment should not cause any harmful interference .

(2) The equipment must receive and process any interference , Including any possible interference caused by operation Mistakes .

Warranty

SecurityMan warrants this product will be free from defects in materials and workmanship for a period of one year; otherwise, specified on the product packaging. This limited warranty shall commence from the date of purchase. SecurityMan products warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, SecurityMan will repair or replace the product. This warranty shall not apply to products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear or any condition other than what can be considered normal use.

Limitation of Liability

The liability of SecurityMan arising from this warranty and sale shall be limited to a refund of the purchase price. In no event shall SecurityMan be liable for costs of procurement of substitute products or services, or for any lost profits, or for any consequential, incidental, direct or indirect damages, however caused and on any theory of liability, arising from this warranty and sale. These limitations shall apply not withstanding any failure of essential purpose of any limited remedy.

Operating Restrictions

DO NOT use this product to violate one's privacy. Monitoring one's private activities without consent is illegal and this is not designed and manufactured for these purposes.

DO NOT use this product for any illegal activities. SecurityMan shall not be responsible for any consequences of illegal conducts made by users.

SecurityMan®
4601 E. Airport Drive, Ontario, CA 91761, USA
Tel: 888-977-3777 or 909 -230-6668
Email: info@securitymaninc.com
Fax: 909-230-6889
Website: http://www.securitymaninc.com
Made in China

Copyright 2010 by SecurityMan v4.0

TABLE OF CONTENTS

INTRODUCTION 1
FEATURES 1
PACKAGE INCLUDES 2
HARDWARE BASIC 2
- **LCD CONTROL** 2
  - LCD MENU OPTIONS 3
  - AUDIO 3
  - FUNCTION 4
  - SYSTEM 5
  - PRESET 6
- **FRONT PANEL** 7
- **REAR PANEL** 10
- **SIDE PANEL** 12
- **RC (REMOTE CONTROL)** 12

GETTING STARTED 14
HARDWARE SETUP 15
- **HARD DISK DRIVE INSTALLATION** 15
- **EXTERNAL MONITOR INSTALLATION** 15
- **CAMERA INSTALLATION** 16
- **SENSOR INSTALLATION** 17
- **ALARM INSTALLATION** 18
- **MOUSE CONNECTION** 19
- **POWER ON DVR & HDD FORMAT** 19

MENU SETUP & CONFIGURATION 21

USING FRONT PANEL AND REMOTE CONTROL 24
USING MOUSE CONTROL 24
CAMERA 24
CHANNEL 25
DISPLAY 25
BRIGHTNESS 25
CONTRAST 25
HUE 25
SATURATION 25
RECORD 26
RECORD FRAMERATE 26
RECORD QUALITY 27
RECORD SCHEDULE 28
ALARM 30
ALARM DURATION 30
BUZZER DURATION 31
EVENT REC DURATION 31
SENSOR 31
MOTION DETECTION 32
SCREEN 34
BORDER 34
AUTO SEQUENCE 34
VIDEO ADJUSTMENT 35
AUDIO 35
SYSTEM 36
HARD DISK SETUP 37
OVERWRITE ENABLE 37
FORMAT HDD 37
ACCOUNT SETUP 39
ACCOUNT 39

PASSWORD 40
LEVEL 40
PASSWORD/PASSWORD SETUP 41
KEYPAD TONE 42
TIME SET 42
EVENT LIST 43
PTZ SETUP 43
BUTTON FUNCTION FRONT PANEL/REMOTE CONTROL 45
REMOTE CONTROL 45
MOUSE FUNCTION 45
PRESET SETUP 45
PTZ MODE 46
ICON FUNCTION WINDOW 46
ATTENTION 46
F/W UPGRADE 46
LOAD SETUP DEFAULT 47
SEARCH:PLAYBACK 47
PLAYBACK CONTROLS USING FRONT PANEL OR REMOTE CONTROL (RC) 48
PLAYBACK CONTROLS USING MOUSE 49

BACKUP TO USB MEMORY STICK 50
LANGUAGE 52
LOGOUT 52
EXIT 53

SOFTWARE INSTALLATION 54
SOFTWARE UNINSTALLATION 57

PC PLAYBACK 58

SOFTWARE BASIC & PLAYBACK 58
CONTEXTUAL MENU 61
OPEN FILE...F2 61
OPEN DISK 61
EXPORT (*.VVF TO *.AVI CONVERSION) 62
CLOSE OR F4 63
SHOW TIME 63
ALWAYS ON TOP 64
PLAYBACK 64
CAPTURE 64
AUDIO 65
FULL SCREEN 65
MAXIMIZE 65
ASPECT RATIO 65
SPLIT MODE 65
ABOUT VIEWER OR F1 66
EXIT OR ALT+F4 66

APPENDIX 67
RECORD TIME 67
SPECIFICATIONS 68
SYSTEM CONNECT MAP DIAGRAM 69
COMPATIBLE USB FLASHDRIVE 70
Q & A 70

INTRODUCTION

Thank you for purchasing LCDDVR4 system. The LCDDVR4 system is a space-saving LCD & DVR 2-in-1 solution for homes and small businesses. It is composed of both 10.2" color LCD monitor and a 4-channel digital video recorder in one. It is a total digital video surveillance system with duplex functionality; the ability to simultaneously playback while in recording. Compact designed for limited space area and simple to install, wall-mounted or place on desktop. Easy access control using remote control, panel buttons, or mouse control with the touch of a button.

Features

- Space saving LCD/DVR combo design
- 10.2″ flat panel LCD color monitor with desktop and wall-mountable base
- Easy to use 4-ch duplex DVR (simultaneous playback/record)
- 2-ch audio inputs and 1-ch audio output
- Recording speed up to 60fps total (up to 30fps each camera)
- One internal SATA hard drive (i.e. 80GB/320GB records about 50hrs/200hrs @ default settings 30fps & normal quality)
- Selectable recording modes: Continuous, Motion detection, Sensor activated, Time Schedule, and both Sensor & Motion detection.
- Easy access using a remote controller or a mouse control
- Easy back up to a portable USB flash drive and playback from a PC
- Power recovery auto record function
- RS485 port for protocol camera; Pelco-P/D
- I/O: 4 inputs and 1 output terminals
- Video loss alarm function
- Ideal security system for homes and small businesses

PACKAGE INCLUDES

- LCDDVR4 w/ mounting bracket stand
- Power adapter with cable
- Remote Controller (batteries included)
- PS/2 Mouse
- Software CD (for PC)
- User Manual
- Ground Cable and screws

Hardware Basic

LCD Control

Top Panel

1) **MENU/POWER:** Press and hold for 2 seconds to turn ON/OFF the LCD monitor. Press MENU/Power button to get to the LCD menu and press it again to browse through the display menu options.
2) **UP:** In the LCD menu, press the UP button to browse up the menu options.
3) **DOWN:** In the LCD menu, press the DOWN button to browse down the menu options.
4) **+** : In the LCD menu, press the + button to change or increase the parameter/value.
5) **-** : In the LCD menu, press the – button to change or decrease the parameter/value.

LCD Menu Options

The LCD Menu options are use to adjust the PICTURE, AUDIO, FUNCTION, SYSTEM, and PRESET parameters of the LCD monitor. To access the LCD Menu press the **MENU/POWER** button once and the PICTURE menu will appear on the LCD screen as shown below. Press **MENU/POWER** button again to browse from one menu to the next.

Press the **UP/DOWN** buttons to browse the picture sub-menu and press the **+/-** buttons to increase/decrease the value or parameter of the sub-menu. The manufacture default value for BRIGHT, CONTRAST, and COLOR is set at 50 percent. The maximum value for BRIGHT, CONTRAST, and COLOR is 100 percent. Press the **MENU/POWER** button 5 more times from the PICTURE menu to exit out from the LCD Menu options.

BRIGHT: 0 to 100 (default 50%)

CONTRAST: 0 to 100 (default 50%)

COLOR: 0 to 100 (default 50%)

Audio

Press the **MENU/POWER** button twice to get to the **AUDIO** menu setting as shown below.

VOLUME: 0 to 100 (default 27%)

Note: This is volume control for the LCD monitor and it is the master volume control that dominates over the recorder's volume control. If volume level is set too high, the microphone gain from the camera may sound distorted.

The **AUDIO** menu is use to adjust the LCD volume level which dominates over the recorder's volume control level. Press the **+/-** buttons to increase/decrease the volume level of the LCD monitor. The manufacture default volume level is set at 27 percent. Press the **MENU/POWER** button 4 more times from the **AUDIO** menu to exit out from the LCD Menu options.

Function

Press the **MENU/POWER** button 3 times to get to the FUNCTION menu setting as shown below.

Dis. Ratio: 16:9, 4:3 (default 16:9)

Note: In a 16:9 display ratio, it is normal for the images to zoom or stretch to a full screen display. However, the 4:3 display ratio will display normal images on the screen but will not display in full screen.

The FUNCTION menu is use to adjust the display ratio of the LCD screen. The display ratio manufacture default setting is 16:9. Alternatively the ratio can be

change to display in 4:3 ratio. To toggle between the display ratio press the **+** or **–** buttons. Press the **MENU/POWER** button 3 more times from the FUNCTION menu to exit out from the LCD Menu options.

System

Press the **MENU/POWER** button 4 times to get to the SYSTEM menu setting as shown below.

S-ROLOC: AUTO, NTSC, SECAM, & PAL (default AUTO)

Note: Please use default AUTO setting unless the video format intended does not display correctly. Displays in black and white and/or rolling images, and then select the correct video standard used for your country. The NTSC and PAL jumper setting located inside (behind the HDD cover) the DVR has priority over SYSTEM/S-ROLOC settings; the default jumper setting inside the DVR is set to NTSC for North America and other NTSC countries.

The SYSTEM menu is use to configure the type of video format the LCD display. Press the **+** or **-** buttons to toggle between the different video format. The manufacture default S-ROLOC setting is set to AUTO. Alternatively it can be change between AUTO, NTSC, SECAM and PAL video format, check your country code for video standard. Press the **MENU/POWER** button 3 more times from the FUNCTION menu to exit out from the LCD Menu options.

Preset

Press the **MENU/POWER** button 5 times to get to the PRESET menu setting as shown below.

SLEEP: 0~24 0Mins. (default 0)
TIME: setup current time (default --)
OFF-TIME: setup time for LCD to turn off (default --)
ON-TIME: setup time for LCD to turn on (default --)

Note: OFF-TIME has to exceed the TIME and ON-TIME. SLEEP (countdown timer) and TIME (interval) feature works and operates independently.

The PRESET menu is use to setup SLEEP and TIME (OFF-TIME, ON-TIME). In PRESET menu press the UP/DOWN buttons to browse up and down the menu. Press the + or - buttons to change the value or perimeter. The – button is use to decrease the SLEEP value and increase the hour for TIME setting. The + button is use to increase the SLEEP value and increase the minute for TIME setting. SLEEP and TIME are two independent features; please use one or the other feature. The SLEEP value can be set between 0~240 minutes with an increment of 10 minutes, the default value is 0. SLEEP is a countdown timer; the time that take for the LCD monitor to automatically turn off (not the DVR). The TIME mode can be setup by first setting the current time of day for TIME value. Next, using the TIME setting as guidance, setup the OFF-TIME and ON-TIME setting to automatically turn OFF and ON the LCD monitor respectively. Press the **MENU/POWER** button one more time from the PRESET menu to exit out from the LCD Menu options

Front Panel

The front panel consists of a LCD display screen (above the function buttons), a speaker (to the left of the function buttons), and DVR function buttons use to control and configure the DVR. The front panel buttons is use to operate the DVR's basic functions such as; record, playback, fast-forward, reverse playback, and etc. Below is a list of basic buttons and its functionalities:

Front Panel

1) **CH1↑, CH2↓, CH3←, CH4→, & QUAD** buttons is use to display the camera channel in full screen or in quad split screen for all 4 channels. To display full screen for camera 1 simply press the **CH1** button once. In the menu mode, **CH1↑, CH2↓** and **CH3←, CH4→** buttons are use browse and change parameter settings respectively. Press **CH1** again or press the **QUAD** button to get back to quad split screen view.

2) **REC** button is use to initiate recording and stop recording. To start recording, press **REC** button to start manual recording. The ● **REC** will appear on screen in red to show the DVR is in record mode. Press the **REC** button again will end the recording process, password may require depending on system configuration.

3) **STOP** button is use in playback mode. Press the **STOP** button in playback mode to stop the video from playing back.

4) **PLAY** button is use to search and playback the recorded video file. Press the **PLAY** button to start time and date **Time Search**. Press the **PLAY** button

again to start playing back the oldest data that exist in the hard drive. From the **Time Search** menu option, press the **SEL/EDIT** button to enter query time/ date search. Press the **UP/DOWN** button to browse and press the **SEL/EDIT** button to change the value. Press the **MENU/ESC** button to accept and confirm time/date search and then press the **PLAY** button to start searching. In play or playback mode, press the **MENU/ESC** button at any time to activate file backup, please reference file backup section of the manual.

5) **FWD** button is use to fast forward in playback mode and also use to activate auto sequence if and only if the Auto Sequence is turned on in the system menu.

To fast forward during playback, press the **FWD** button. There are three levels of fast forwarding speed as follow:

a) The ▶ ▶ FF : Playback at 2X times the normal speed.
b) The ▶ ▶ ▶ FF : Playback at 3X times the normal speed.
c) The ▶ ▶ ▶ ▶ FF: Playback at 4X times the normal speed.

To toggle between the fast forward speeds, press the **FWD** button once, twice, or 3 times during playback to fast forward the video footage. Press the **PLAY** button at anytime to exit out from FF mode and get back to normal playback speed.

6) **REW** button is use to rewind in playback mode. To rewind during playback, press the **REW** button. There are three levels of rewinding speed as follow:

a) The ◀ ◀ REW: Rewind playback at 2X times the normal speed.
b) The ◀ ◀ ◀ REW : Rewind playback at 3X times the normal speed.
c) The ◀ ◀ ◀ ◀ REW : Rewind playback at 4X times the normal speed.

To toggle between the rewind speeds, press the REW button once, twice, or 3 times during playback to rewind the video footage. Press the **PLAY** button at anytime to exit out from REW mode and get back to the normal playback speed.

Note: The fast forward and rewind playback speed varies depending on the frame rate, the record quality settings, and the number of channels recorded.

7) **PAUSE** button is use to pause the playback footage in playback mode. To pause the playback video, press the **PAUSE** button once. In pause mode, press the ▲ **UP**/▼**DOWN** buttons to playback video footages step by step or

frame-by-frame. To continue normal playback, press the **PLAY** button.

8) **MENU/ESC** button is use to access the main menu of the DVR. The main menu is use to configure and setup parameter of the DVR. Press the **▲ UP**/ **▼ DOWN** button to browse through the main menu. In playback mode, the **MENU/ESC** button is use to access file backup panel. Press the **MENU/ESC** button at anytime to exit out from the menu.

9) **▲ UP** / **▼ DOWN** button is use to browse/toggle or change a menu field. In playback mode, the **▲ UP**/**▼ DOWN** button is use to playback footages frame-by-frame accordingly.

10) **SEL/EDIT** button is use to select and/or change the value in main menu or sub menu setting.

11) **PWR, HDD, & IR** are light indicators and IR for the remote control. Color light indicator and their meanings:
    a) PWR: Solid green light DVR has power and it is up and running. No light indicates the DVR is not powered on or power failure.
    b) HDD: Constant flashing red light indicates the system is in Record mode and/or in playback mode. No light indicates that the DVR is not in record mode or in playback mode.
    c) IR: The IR is the remote control receiver window. Remote control needs to be pointing towards the IR receiver window for efficiency.

12) **PTZ** button is use to enter PTZ control screen. PTZ mode is used when supported protocols camera are installed; currently supporting Pelco-P and Pelco-D.

Rear Panel

The rear panel of the LCDDVR4 consists of ports and interfaces for video inputs, video output, audio inputs, audio output, power socket, mouse port, HDD bracket, I/O terminals and bracket stand. The picture below shows a list of basic ports, I/O interfaces and connections:

1) **DC 12V:** An AC/DC power socket for power adapter input. Connect using the power adapter provided; plug the power jack to the DC 12V socket and then plug the power adapter to an electrical outlet. Power adapter specifica tion: Input: AC 100~240V, 50/60Hz, 1.5A / Output: DC +12V == 5.0A, positive inside.

2) **AUDIO OUT (1x):** RCA interface connection to an audio input speaker (mono) source. Use to transfer both live and playback audio output from the DVR to a larger speaker.

3) **POWER:** This is the main power switch for the DVR, to switch ON/OFF.

4) **VIDEO OUT:** For monitor output to a TV monitor, CCTV monitor and etc. Video output is BNC connector interface use ideally to output the display into a larger monitor display or if the LCD display gone bad. The VIDEO OUTPUT works in parallel with the built-in LCD monitor, however the LCD menu will not display through to the video output. It can also be connected into a VHS device for tape backup.

5) **AUDIO 1/2 IN:** Connect up to 4 audio microphone cameras into the audio input ports. Only one audio port can be active for monitoring and recording. If one audio input is connected into AUDIO 1 IN and the AUDIO menu is setup for channel 1, audio will output in channel 1 full screen view and in quad view. However, if audio input is connected to AUDIO 1 IN and AUDIO menu is setup for channel 1, viewing channel 2/3/4 in full screen will mute the audio output.

6) **PS2 MOUSE:** Use this port for PS/2 mouse connection. If you have USB port mouse, use USB - PS/2 adapter to connect with this port.

7) **HDD Bracket:** The HDD bracket is use to mount the system hard disc drive.

8) **VIDEO INPUT:** connect up to 4 cameras into the corresponding video input ports. Video input is BNC connector interface, converters required for RCA interface cameras.

9) **RS485/ SENSOR/ ALARM**:

RS485

The first two terminals from left to right is the RS485 power line ports use for protocols camera. RS485 two terminals are – and +. Only two protocols are supported, Pelco-P or Pelco-D protocols camera with RS485 terminal to integrate.

ALARM

This is an alarm input terminal use to connect dry contact of an output device such as a siren, spot light and etc. The output device requires having its own power to integrate. The alarm terminal does not provide any power to the output device.

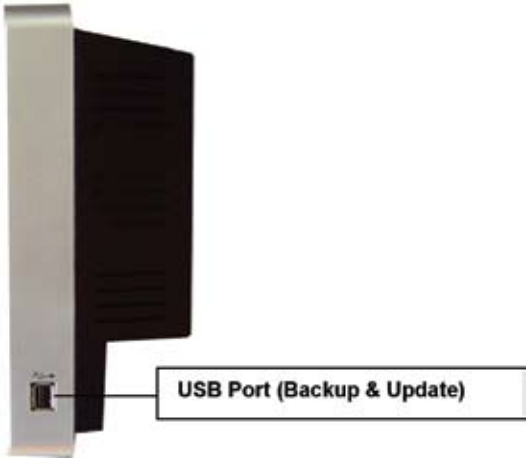
SENSOR

There are 4 sensor input terminals total, in which up to 4 sensors can be con nected to the DVR. Each sensor input consists of 2 terminals, because it is a relay terminal. The input terminals can be configured to trigger video record-ing. If the input is motion detection, motion can also be configured to trigger video recording.

Note: Mount the ground cable (green) to the GND screw located below the Power switch and secure the other end of the ground cable to a ground source. Grounding the DVR will help to prevent surge and protection from other unknown static.

Side Panel

The right side panel consists of a USB port use for backup purposes and update firmware. The USB port is dedicated for backup purposes only; alternatively, USB mice will be compatible and will not function through this USB port.



RC (Remote Control)

1.	**CH1 ↑**	Select, CH1 full screen, Move up (PTZ), Move cursor up, FF frame-by-frame
2.	**CH2↓**	Select, CH2 full screen, Move down (PTZ), Move cursor down, REW frame-by-frame
3.	**CH3 ←**	Select, CH3 full screen, Move left (PTZ), Move cursor left or Reduce value
4.	**CH4 →**	Select, CH4 full screen, Move right (PTZ) or Move cursor right or Increase value
5.	**QUAD**	Quad View
6.	**◄◄ / Z-**	Rewind / Zoom-(PTZ)
7.	**► / F+**	Time search playback / Focus+ (PTZ)
8.	**►► / Z+**	Forward or Channel auto sequence switch / Zoom+(PTZ)
9.	**●**	Manual recording, Stop manual recording or Level scan
10.	**❚❚ / F-**	Pause / Focus- (PTZ)
11.	**■**	Stop playing or Stop dome running (PTZ)
12.	**PTZ**	PTZ Switch
13.	**Menu/ESC**	Enter or exit setup menu
14.	**Select/Enter**	Select, modify item or Increase value
15.	**UP**	Scroll up prompt or play forward frame-by-frame
16.	**DOWN**	Scroll down prompt or play backward frame-by-frame

GETTING STARTED

Install a SATA hard disk drive into HDD bracket located at the back of LCDDVR4 panel by removing the four screws (Philips) from the HDD bracket. Connect the data and power cable to the SATA hard disk drive, seat the HDD bracket back into the slot and secure it with the four screws. Hook up to 4 cameras with BNC interface into the video inputs of the DVR. Connect the PS/2 mouse, external sensors (if any), alarm, GND cable, audio in/out, and etc. into the DVR back terminals. Plug the power adapter into the back of the DVR and the other end plugs into an electrical outlet. Power on the DVR by switching the main power ON, located at the lower left corner of the back panel and then both the DVR and LCD monitor will automatically boot up the user interface screen. Press the REC button to start the recording process and press the PLAY button to start playback recorded file. More detail overviews of this summary below.

Note: If the power adapter is accidently unplugged or there is a power failure during recording and when the power comes back; the DVR will detect the failure, enter “Power Recovery” mode, and then reinitiate the recording process.

HARDWARE SETUP

Hard Drive Installation

To install a SATA hard drive into the LCDDVR, please remove the four screws from the HDD bracket located in the back panel of the DVR (Step 1). Setup the jumper setting on the SATA hard drive to either 1.5Gb/s or 3Gb/s operation, prefer to set to 3Gb/s (Step 2). Secure the hard drive to the HDD bracket with the provided HDD screws (4x). Then connect the Power and Data cable of the DVR to the SATA hard drive (Step 3). Slips the HDD bracket back into its slot and secure the bracket with the four screws (blk), as shown below in step 4 and step 5.

Step 1

Step 2

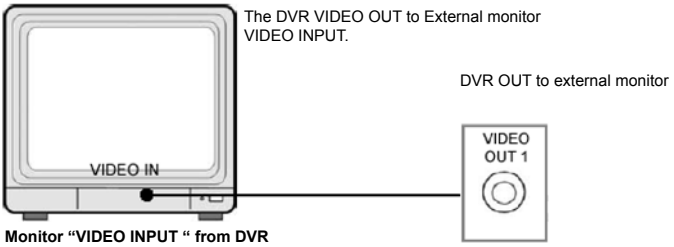
Step 3

Step 4

Step 5

External Monitor Installation

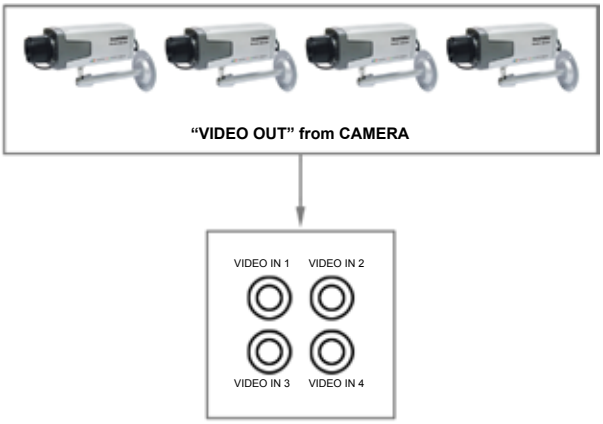
Connect the VIDEO OUT (BNC) from the DVR to the video input of an external monitor for larger screen display or if the built-in LCD monitor fail.



Camera Installation

Connect the camera’s Video Output to the Video Input “IN1~4” of the DVR located in the rear. Plug the camera power to the camera and the other end into an electrical outlet. Connection diagram illustrated below.

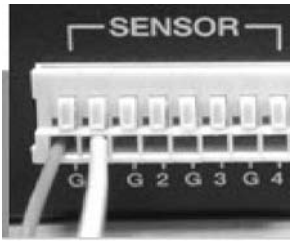
Note: Camera using RCA interface connection requires an additional RCA female to BNC male adapter. Other adapters may require for other different types of camera interface.



Sensor Installation

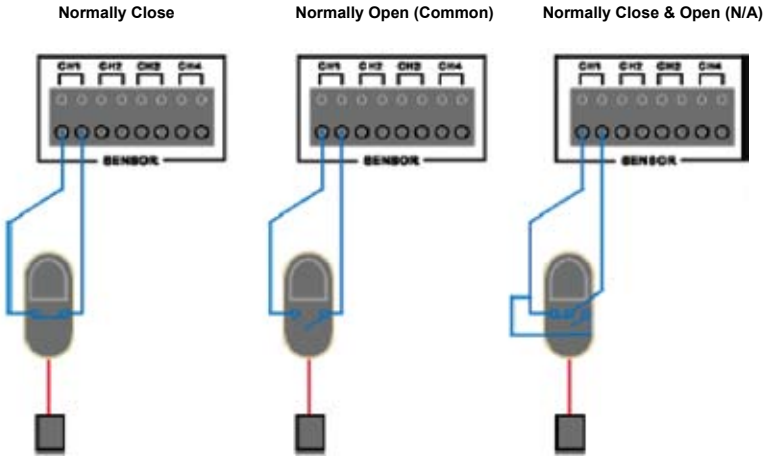
There are a total of 4 sensor input terminals located in the rear of the DVR. The sensor input is use to setup hard wire external sensor such as motion sensor, window/door sensor, and etc. Since the terminal does not provide power to the input devices, the sensor is required to have its own power. There are two simple steps to install hard wired sensor input as follow:

- Choose one of the four terminals to connect the sensor into. Connect the sensor signal lines to the SENSOR input terminal as shown in the picture diagram below.
- If the sensor requires power, use the power from the sensor device, plug the power jack into the sensor and then plug the other end of the power adapter to an electrical outlet.



Note: Most input may not require power. Each sensor input terminal corresponds to the actual camera channel. For example; Sensor #1 interacts with channel #1 camera, sensor #2 corresponds with channel #2 camera and so on

Generally, there are three different types of sensor configurations: Normally Close, Normally Open, and Normally Close & Open (N/A). For LCDDVR4 only two of the three configurations used; Normally Close, Normally Open, or None (default setting). Most commonly used is the Normally Open relay. Below are general diagrams of the different sensors relay and how they are installed in conjunction to the LCDDVR4 terminals:

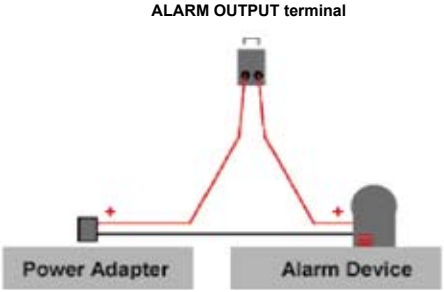


After the sensor hardware has been setup according to the above illustrations, next is to activate the sensor via the MENU setup on the LCDDVR4. To active the sensor in the MENU setup please advance to page 28 and 29 of this manual.

Alarm Installation

The unit provides 1 internal switch for sounding alarm when the sensor is activated. The switch is open at normal state a wiring diagram is illustrated below. When the alarm is activated, the switch becomes close so that the alarm gets the power to trigger at closed circuit. There are two simple steps to install hard wired alarm output as follow:

1. Connect the alarm power lines to the ALARM switch terminal as shown in the diagram below.
2. Then connect the power adapter of the alarm device to an electrical outlet.



Mouse Connection

Connect the PS/2 mouse to the PS2 MOUSE port of the DVR located in the back of the DVR. Mouse control is one of the most convenient way of controlling the DVR, setup and configure the DVR. If mouse is lost or stolen, any PS2 mouse should be fully compatible with PS2 MOUSE port and DVR.

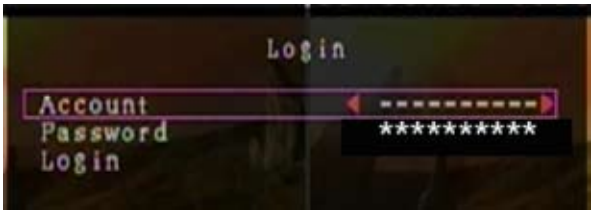
[PS/2 Mouse Port]

Power On DVR & HDD Format

Connect the power jack (Input: AC 100~240V, Output: 12VDC 5.0A, positive inside) into the power socket located in the rear of DVR and then connect the other end to an electrical outlet. Power on the LCDDVR4 with the power switch and the DVR will start to boot into dos mode scanning for new hard disk drive. If new hard drive is detected, it will prompt to configure or format before the system gets to the user interface window. To proceed and format the new hard disk drive, press the **PLAY** button using the remote control or front panel button. Once disk format is successful the "**Format….OK**" will display on screen to indicate the hard disk has been successfully formatted as illustrated below. To cancel the formatting process, press the **STOP** button using the remote control or front panel button. Formatting only require one time for newly installed hard drive; any reboot thereafter will skip the format process in the dos boot up and boots to the user interface screen. To pause in dos boot up, press the **STOP** button at anytime.

After the initial boot, the DVR advance to the user interface screen. The user interface consists of 4 channel (QUAD) view along with the channel number, disk use percentage, date and time display as shown below:

MENU SETUP & CONFIGURATION



To enter the MAIN SETUP MENU press the **Menu/ESC** button on the remote control, front button panel or right-click button on the mouse and a login window will appear as shown above. There are three Account/Password level; the **Admin** account (highest, default), the **Operator** account, and the **Guest** account (lowest). By default the system has the password set to **ON** which require operator to input in a login name or account and a login password. When the password is in the **ON** mode, after login if the system is idle for a period of 5 seconds, a login name and a login password is require to be input in again due to inactivity. The period of inactivity is automatically determined by the DVR system.

The **Admin** (administrator) has full controls of the DVR system; setup login name, password and accounts level for each account users. Only one system Admin account per a system, a second Admin account cannot be created. Besides the **Admin** account, up to 3 additional accounts can be created alternating between **Operator** and **Guest**. Please reference Account Setup on page 39 for more detail.

The **Operator** account can perform tasks similar to that of the Administrator account except for the following restrictions; operator cannot alter or add users account setup, **operator** cannot format the HDD, restricted from run firmware update, and cannot load setup default setting. However, in **Operator** account level has the privilege to change its own **Operator** password.

The **Guest** account has the least priority of all account levels, more restrictions, which limits to parameter value change and setup functionality. **Guest** account level of operation is suitable for live video viewing and playback purposes. Here are the list of privileges that **Guest** account level can do; [live

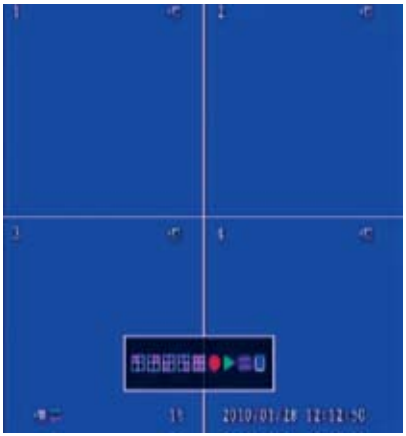
view channel 1~4], [playback recorded image file], [setup>camera> channel 1~4], [setup>alarm>motion detection>channel view 1~4], [setup>screen> boarder/auto sequence], [setup>audio>channel 1~4], [setup>system>password setup/password on-off/key tone/event list], [setup>search for playback recorded image files or events], and [setup>language selection]. In **Guest** account login, the identifier " ⊖ " icon will appear on the top right hand corner of the screen if the restricted setting(s) is selected.

From the "Login" screen, left mouse click on or press **SEL/EDIT** button or use the remote to select **Account** and an Account keyboard window will appear as illustrated above. Inputs in the account login name by select the characters/numbers on the keyboard window using either left click from the mouse control or press **SEL/EDIT** button (panel/RC) or use the up/down/left/right/enter buttons on the remote control or front panel to browse/select. Select **Enter** to save and accept the account login name.

Select the Password option from the "Login" screen and the password window will appear as shown above. Input the passwords to the account login name using either left click on the mouse control or press **SEL/EDIT** button (panel/RC) or use the up/down/left/right/enter buttons on the remote control or front panel to browse/select. Select **Enter** to save and accept the password. Finally, click on or select the Login in the "**Login**" window to login into the system **Setup Menu**. The manufacturer default administrator account and password is "**admin**" and "**111111**" respectively. Please use the system default account/password to login to the LCDDVR4 for the first time.

After login the system, right click on the mouse to open up the **Setup Icon** menu window as shown below. Using the mouse control will get to the **Setup Icon** menu window, however if the **MENU/ESC** button (panel/RC) is use the **Setup** menu will appear as shown below

Setup Icon menu window (mouse only):



Channel 1 full screen button

Channel 2 full screen button

Channel 3 full screen button

Channel 4 full screen button

Quad Channel view button

Manual Start/Stop REC button

Playback Time Search button

PTZ switch

Channel auto sequence button

*The auto sequence icon " ⇌ " will not show in the **Setup Icon** menu window if the "Auto Sequence" feature is turn OFF.

Setup menu button

Logout of **Setup Icon** menu

*The logout button will not show in the **Setup Icon** menu window if the "Password" feature is set to ON or if the auto sequence is set to ON.

If ⇌ is present in the **Setup Icon** menu, press the ⇌ icon to stop auto sequence, press again to start auto sequence. To exit out of the **Setup Icon** menu without logout; simply right mouse click anywhere on the screen. Use the left mouse click on the icon and the **Setup** menu will appear as shown above. The **Setup** menu is use to make change to the DVR setting and configuration parameter.

Using Front Panel and Remote Control

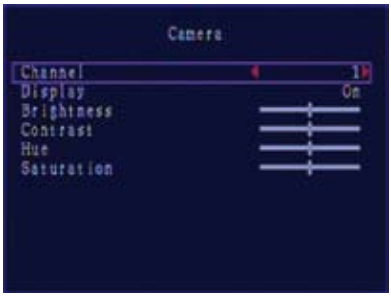
Press the **Menu/ESC** button on the front panel or remote control to access the **Setup** menu list. Press the **UP** and **DOWN** button on the front panel or remote control to browse up and down the **Setup** menu. Press **SEL/EDIT** button on the front panel or remote control select and enter the sub-menu. To change the parameter or values of the sub-menu simply select the sub-menu, the " ▶ " red icon will be shown on the right side of the screen and then press on the Select/ Enter button to change. To escape and go back to the previous menu, press **Menu/ESC** button on the front panel or remote control. For detail diagram of the front panel and remote control button description, go to page 7 and 12 of the manual respectively. Front panel and remote controls is common and can be use throughout the **Setup** menu.

Using Mouse Control

Move the mouse up and down to browse through the **Setup** menu list. Press the left button on the mouse to select highlighted menu/sub-menu. In the sub-menu, click on the " ▶ " red icon shown on the right side of the screen to change the parameter or values of the sub-menu. Use the right mouse click at anytime to escape to the previous **Setup** menu. To connect the PS/2 mouse to the DVR, please reference page 19 of the manual. Mouse control is common and can be use throughout the **Setup** menu.

CAMERA

Select **Camera** from the **Setup** menu to get the camera setup menu as show below.



Camera menu consist of **Channel**, **Display**, **Brightness**, **Contrast**, **Hue**, and **Saturation**.

CHANNEL

Channel is use to toggle between camera channels, ie channel 1, channel 2, and etc for the purpose of adjusting and fine tuning the camera image. Channel name 1, 2, 3, 4 cannot be change. Or, press the left and right arrow of the front panel or remote control to change value respectively.

DISPLAY

Display can be use to turn ON (Default setting) or turn OFF the channel name display. The channel names are channel identity used to identify each channel by name or number; in this case the channel names are fixed by default. The display default setting is set to ON. Or, press the left and right arrow of the front panel or remote control to change value respectively.

BRIGHTNESS

Brightness is use to tune up and down the bright level of an image in the selected channel. Click on the left red arrow to reduce the brightness level and click on the right red arrow to increase the brightness level of the image. Or, press the left and right arrow of the front panel or remote control to change value respectively.

CONTRAST

Contrast is use to tune the depth and sharpness of the image. Click on the left red arrow to decrease the contrast and click on the right red arrow to increase the contrast of the image. Or, press the left and right arrow of the front panel or remote control to change value respectively.

HUE

Hue is use to adjust the variety of color spectrum in the image. Click on the left red arrow to decrease the color glow and click on the right red arrow to increase the color glow in the image. Or, press the left and right arrow of the front panel or remote control to change value respectively.

SATURATION

Saturation is use to adjust the purity of the colors in the image. Click on the left red arrow to decrease the purity of a color. Or, press the left and right arrow of the front panel or remote control to change value respectively.

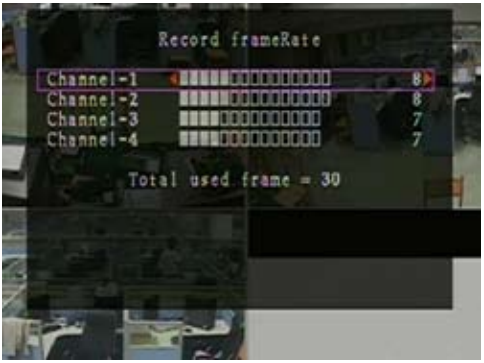
Note: The manufacturer default setting for Brightness, Contrast, Hue and Saturation is centered at 50%.

RECORD

Select **Record** from the **Setup** menu to get to the record setup menu as show below. The **Record** setup menu consists of **Record FrameRate**, **Record Quality** and **Record Schedule**. Press the **Menu/ESC** on the front panel, remote control or single right-click on the mouse at any time to exit out of **Record** menu to the main **Setup** menu.

RECORD FRAMERATE

Select the **Record FrameRate** from the **Record** Setup menu to access the record frame rate setting as illustrated in the picture below. The default **Record FrameRate** setting is 30fps (frame per second) total; by default channel 1 is set to 8fps, channel 2 is set to 8fps, 7fps for channel 3, and 7fps for channel 4. The maximum fps (frame per second) total for all 4 channels can be set to 60fps; single channel fps can be set up to 30fps. To browse the **Record FrameRate** setup menu; press the **UP/DOWN** or **CH1**↑/**CH2**↓ buttons on the front panel, remote control or use the mouse to hover over the channels. The **Record FrameRate** can be setup to the following value:



OFF, 3fps through 30fps. To change the value, press the **CH3**←/**CH4**→ buttons on the front panel, remote control or left mouse click on the ◄ ► red arrows to decrease and increase [**Select/Enter** button on the front panel or remote control (RC) can also be use to increase frame rate value] the recording frame rate respectively. The higher the record frame rate the more natural the movements will be in playback mode. Each channel can be setup with different frame rateor independent of one another, a maximum of 30fps can be setup per channel. Total Used Frame is automatically calculated by the DVR system, frame rate can also be set to OFF meaning that the channel (camera) will NOT be recording. Press **Menu/ESC** button on the front panel, RC or right –click on the mouse at any time to exit out from **Record FrameRate** setup menu

RECORD QUALITY

In the **Record** setup menu browse down to **Record Quality** and the ◄ ► red arrows will appear. Press the **Select/Enter** button on the front panel, RC (Remote Control) or left mouse click on the red arrows to decrease and increase the record quality respectively. There are 3 **Record Quality** levels; level 1 has the lowest record quality, level 2 is normal record quality (System Default setting), level 3 has the highest record quality. The higher the **Record Quality** the better the video image quality will be in playback mode. The higher the **Record Quality** the more the hard disk space is needed because higher record quality contains larger file size per frame rate.

Note: The Record FrameRate setting, Record Quality setting and hard disk size will affect total record time of DVR system. In Chinese captions the best Record Quality is 4, the worst Record Quality is 2.

RECORD SCHEDULE

In the **Record** setup menu browse down to select **Record Schedule**, press the **Menu/ESC** button on the front panel, RC (Remote Control) or left mouse click to access the **Record** Schedule window as illustrated below. Press the **CH1↑/(UP), CH2↓/(DOWN), CH3←, CH4→** buttons on the front panel, RC or mouse to move around to the time and days of the week and then press the **Select/Enter** button on the front panel, RC or left mouse click to change value box. **Record Schedule** consist of time interval from 0 to 24 hours, Sunday to Saturday, Manual record bar (gray), Time record bar (schedule, red), Motion record bar (green), Sensor record bar (yellow), and Motion & Sensor record bar (yellow-green) settings. The time interval from 0 to 24 hours and Sunday to Saturday setting is a matrix designed for a full week of scheduling.

Manual record setting is the systems default setting in which the bars are color coded gray in the schedule matrix. **Manual** record mean to initiate recording; the record button will have to be press on each time to start the recording process and press on again to manually stop the recording process.

Time record; press the **Select/Enter** button or mouse click once on the gray bar to toggle between gray bars to red bar which is **Time** or schedule record. **Time** record mean at the exact time of day scheduled, the DVR will automatically initiate the recording and stops the recording when the time scheduled end.

Motion record; move the cursor to highlight the desire time/date of the week and then press the **Select/Enter** button on the front panel, RC (Remote Control) or

left mouse click twice to change from gray bar to red bar and into the green bar for motion record schedule.

Sensor record; move the cursor to highlight the desire time/date of the week and then press the **Select/Enter** button on the front panel, RC (Remote Control) or left mouse click three times to change from gray bar to yellow bar and into the yellow bar for sensor record schedule.

Motion & Sensor (both) record; move the cursor to highlight the desire time/date of the week and then press the **Select/Enter** button on the front panel, RC (Remote Control) or left mouse click four times to change from gray bar to yellow-green bar and into the yellow-green bar for motion & sensor (both) record schedule.

IMPORTANT NOTE: Motion record schedule requires additional setup in Motion Detection Sensitivity and Motion Area to complete Motion detection configuration setup, see page 32. **Sensor** record schedule requires sensor setup in **Alarm** configuration to complete sensor record setup, see alarm configuration below and alarm connection on page 17. Right click anywhere on the **Record Schedule** menu window or press **Menu/ESC** button on the front panel or RC at anytime to exit.

Another and faster way to mask (more than one bars at a time) the bars is to press the **QUAD** button on the front panel or RC while in the **Record Schedule** window to change the cursor from pink to blue (teal) color. Next use the **CH1↑/(UP), CH2↓/(DOWN), CH3←, CH4** button on the front panel or RC to widen the area to mask. Once the area is confirmed and ready to be masked, press the **Select/Enter** button once on the front panel or RC to mask the selected area to Time Schedule (red bar), press **Select/Enter** button again to mask Motion Schedule (green bar), press **Select/Enter** button again to get to Senstor Schedule (yellow bar), and press **Select/Enter** button again to get to Motion & Sensor Schedule (yellow-green bar). Press Select/Enter button one last time to get back to the default Manual Schedule (gray bar, default).

In a similar way, the mouse can also be used to quickly mask the **Record Schedule** bars. To mask more than one schedule bars; click and hold down the left mouse button at a desire time/date of the week and then drag the mouse cursor to create an area to be mask. Once confirmed, release the left mouse button **(Do**

not move the mouse or mouse tracking after the left button is released) and then left click once on the mouse to mask the bars to Time Schedule (red bar), left click again to mask Motion Schedule (green bar), and so on.

ALARM

To access **Alarm** setup menu, simply browse and select **Alarm** from the **Setup** menu and then the **Alarm** setup menu will appear as shown below. Alarm menu is use to setup and configure **Alarm Duration**, **Buzzer Duration**, **Event REC Duration**, **Sensor** (I/O) and **Motion Detection** (built-in MD).

ALARM DURATION

The Alarm duration refers to the alarm output (in the I/O terminal) use to setup the alarm duration period after the alarm has been activated. It can be set to OFF (system default), 05 seconds, 10 seconds, 15 seconds, 20 seconds, 25 seconds, 30 seconds or CON'T (continuous). To set the alarm output to last 20 seconds, please set 20 seconds. After 20 seconds the alarm output will stop. Press **Menu/ESC** or right click mouse anytime to exit out of **Alarm** setup menu.

Note: The alarm device must be installed in the I/O terminals in order for Alarm Duration setting to be affective.

BUZZER DURATION

Buzzer Duration refers to the built-in buzzer sound when the alarm triggered. It can be set to OFF (system default), 5 seconds, 10 seconds, 15 seconds, 20 seconds, 25 seconds, 30 seconds, or CON'T (Continuous). As its name imply, **Buzzer Duration** is use to configure the length of time the buzzer will sound when an event occur. **Buzzer Duration** is works independently from Event REC Duration time setting. To setup **Buzzer Duration** browse to buzzer duration using the front panel, remote control or mouse to hover over buzzer duration. Change the value by pressing on the **CH3**← (decrease value), **CH4**→/[**Select/ Enter**](increase value) buttons on the front panel, RC or mouse click on the ◄ ► red arrows. Press **Menu/ESC** or right click mouse anytime to exit out of **Alarm** setup menu.

EVENT REC DURATION

Event REC Duration implies to the time of recording periods after an event occur, motion/sensor record time holding; when an event occur the DVR start to record and end the recording when the time expire. **Event REC Duration** can be set from 05 seconds, 10 seconds (system default), 15 seconds, 20 seconds, 25 seconds or 30 seconds. To change the value press the **CH3**← (decrease value), **CH4**→/**[Select/Enter]**(increase value) buttons on the front panel, RC or mouse click on the ◄ ► red arrows. Press **Menu/ESC** or right click mouse anytime to exit out of **Alarm** setup menu.

SENSOR

From the **Alarm** setup menu select **Sensor** to get to the sensor menu as shown above. Sensor setup defined the native state of the wired sensor that is installed in the I/O terminals. There are three different types of sensor setting: **N.O** (Normally Open), **N.C** (Normally Close), & **NONE** (system default). The wired sensor statue may vary depending on manufacturer make; most common setting is **N.O** (Normally Open) state. If unsure please refers to the user's manual of the input device. Select **NONE** if the sensor input is not being use which will deactivate sensor recording. Press **Menu/ESC** or right click mouse anytime to exit out of **Alarm** setup menu

Note: Sensor recording depends on Record Schedule and the present installation of a hard wired sensor in the I/O terminal on the back of the DVR.

MOTION DETECTION

From the **Alarm** setup menu browse to **Motion Detection** using front panel, remote control or hover over with the mouse and then press on the **Select/ Enter** button on the front panel, remote or left mouse click to access the **Motion Detection** setup menu window as illustrated above. **Motion Detection** window consist of **Channel**, **Sensitivity** and **Motion Area** settings. Select **Channel 1** (system default), 2, 3, or 4 to start **Motion Detection** setup for the correspondent channel then move cursor down to **Sensitivity**.

Sensitivity is use to adjust the sensitivity level of video motion detection (built-in software driven) on the DVR system. The sensitivity value level can be set to 1, 2, 3, 4, and OFF (system default). The most motion sensitivity level is 1; the higher the number, the less sensitive the video motion detection which requires more movements in the image to trigger motion sensor. In the default OFF position mean the **Motion** detection will not be detecting any motion and turn off Press **Menu/ESC** or right click mouse anytime to exit out of **Motion Detection** setup menu and back to **Alarm** setup menu.

Select **Motion Area** from the **Motion Detection** setup menu to access the motion area setup window. **Motion Area** is use to mask the range of motion detection area within the camera image. The range of motion detection block area is limited to one block of any size, multiple motion detection block areas is not permitted by the system.

To select or highlight motion area of detection using the front panel or RC (remote control); move the cursor to a desire point in the image, press the **Select/Enter** button once, next use the **CH2↓/(DOWN)** and then **CH4→** button on the front panel or RC to highlight the area of detection (blue film highlight color), press the **Select/Enter** button again to confirm the selection and to release the cursor from the highlighted block area. Press **Menu/ESC** button at anytime to exit from **Motion Area** setup window.

To select or highlight motion detection area using mouse control; click-hold down the left mouse click at a desire location in the camera image and then drag the mouse cursor in a down-right directional movement to mask the area of detection (blue film highlight color). Use right mouse click anywhere in the **Motion Area** window to confirm the masking area and exit out from Motion Area.

IMPORTANT NOTE: To start Motion Record; Motion Schedule (page 28), Sensitivity level and Motion Area must be setup as instructed above. During Motion Area masking, the CH1↑/(UP) and CH3← button and an upward/leftward mouse directional movement cannot be use to mask the motion detection area.

SCREEN

In the main **Setup** menu browse down to **Screen** and press **Select/Enter** using the front panel, RC or left mouse click to access the **Screen** setup menu as illustrated below. The **Screen** setup menu can be use to configure **Border**, Auto Sequence, and **Video Adjustment**.

BORDER

On the **Screen** setup menu, select **Border**. The **Border** configuration when turn ON (system default) will divide the quadrant with a gray cross between the four channels. This helps to distinguish the border line for each channel. **Border** can also be set to OFF; this will disable the gray cross border between the four channels or borderless display.

AUTO SEQUENCE

In the **Screen** setup menu, select **Auto Sequence**. The **Auto Sequence** is use to setup **Sequential** time intervals which value can be set to OFF (Default setting), and from 1 second up to 10 seconds. To enable auto sequence set the dwell time between cameras to a desire time intervals and then **Exit & Save Changes**. The ⇌ icon will display in lower left hand corner of the user interface screen to indicate **Auto Sequence** is active and the channel will display in single full screen. For example, if the sequential time is set to 3 seconds, the camera will display for 3 seconds and then loop to the next camera is sequential order. However; if the camera is not connected or not installed, the **Auto Sequence** will automatically skip over those inactive channel(s).

To deactivate **Auto Sequence** mode; press the **Menu/ESC** button on the front panel or RC, select **Screen** from the menu and disable **Auto Sequence** by setting it to OFF. For temporary disable without turning the **Auto Sequence** off, press the ►► button once to intermit auto sequence. To deactivate **Auto Sequence** using mouse function; right mouse click anywhere on the image to get to the **Icon Setup Menu** and then click on the ⇌ icon.

VIDEO ADJUSTMENT

Video adjustment is use to adjust, synchronize and centralize the video screen. To synchronize the video screen, select the **Video Adjustment**, and then press the **CH1↑, CH2↓, CH3←, CH4→** on the front panel or RC to move up, down, right, & left as desire. Press the **Menu/ESC** button on the front panel or RC to exit out from **Video Adjustment** window.

Using mouse control to synchronize the video screen by right mouse click in the Video adjustment screen and the will appear. Synchronize the video screen by using left mouse click on the ▲ (up), ▼ (down), ◄ (right), ► (left) icons in green or press the to exit out from Video Adjustment window.

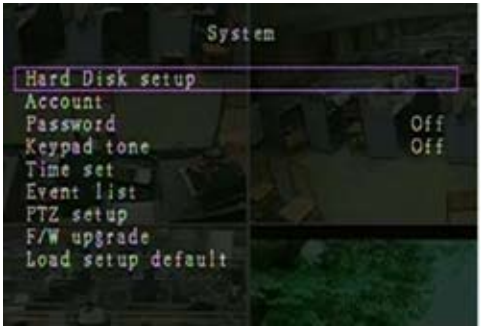
Note: The video screen cannot be expanded or stretched out to fit the display screen.

AUDIO

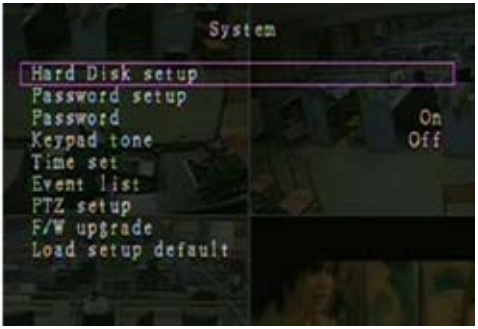
From the main **Setup** menu browse down to **Audio** and press **Select/Enter** using the front panel, RC or left mouse click to access the **Audio** setup menu as illustrated above. The **Audio** menu consists of **Channel, Record, Mute** and **Volume**. Select the channel/camera to setup audio configuration. Then set the **Record** to ON (require microphone device to be attached to the Audio Input of the system, system default) for audio recording or OFF to disable audio recording. Turn the **Mute** ON will mute live audio and switch Mute OFF (system default) will turn ON live audio streaming. **Mute** works independently from **Record** ON/OFF and will not affect audio recording if **Mute** is set to ON or mute. Next, adjust volume for the speaker by moving the **Volume** leverage up or down (system default is 25%, (1/4)). The **Volume** controls both the live audio streaming and the intensity level of sound recording. Press **Menu/ESC** button at anytime to exit out from **Audio** setup window.

SYSTEM

From the main **Setup** menu browse down to **System** and press **Select/Enter** using the front panel, RC or left mouse click to access the **System** setup menu as illustrated below. The **System** menu contains **Hard Disk Setup, Account, Password, Keypad Tone, Time Set, Event List, PTZ Setup, F/W Upgrade**, and **Load Setup Default**. Notice **System** shown on the left in the bellow picture contain **Account** information for **Admin** login vs. the picture shown on the right which does not contain **Account** because of **Operator/Guest** login.



Left



Right

HARD DISK SETUP

Select **Hard Disk Setup** from the **System** menu to get to the hard disk setup windows as shown below.

OVERWRITE ENABLE

In **Hard Disk Setup** menu set **Overwrite Enable** to Yes (system default) to allow the system to continue to record and overwritten the oldest data by the minute when the hard disk filled up. Set the **Overwrite Enable** to **No** will stop the DVR from recording when the hard disk filled up.

FORMAT HDD

When new hard drive is first installed into the LCDDVR4 system, the DVR initially formatted the hard drive. Use **Format HDD** to reformat the hard disk only in special cases such as slow system boot up, playback pixilated images, wants to delete all the data, bad sectors, and etc. If this **Format HDD** is chosen, all the video data stored in the hard disk drive will be deleted.

Warning: Formatting hard disk drive will delete all data in the hard drive and deleted data cannot be recovered. The DVR system does NOT store the recorded data file and does NOT have restore option.

To proceed with hard disk format; select or click on **Format HDD** and the **Format HDD** window will appear as shown below.

To continue with hard disk formatting; input an **Admin** login password and then select or click on “Enter” to start the formatting process. A **Format HDD** … window will appear during the formatting process and then follow by a **HDD was formatted** window to complete the formatting process as illustrated below.

If the **Admin** password is incorrect, a **Wrong password** window will appear stating the password has not been inputted correctly.

Hard disk setup menu also displays the capacity size of hard drive (in MB), the amount of disk space used, and hard disk model as detected by the system. Press **Menu/ESC** button or right mouse click at anytime to exit out from **Hard Disk** setup window.

ACCOUNT SETUP

From the main **System** menu browse down to **Account** and press **Select/Enter** using the front panel, RC or left mouse click to access the **Account** setup menu as illustrated below. **Account** menu login is restricted for **Operator** and **Guest** account users, only the system **Admin** login can edit the **Account** menu. The **Account** setup menu allows the system administrator to add new user accounts, delete existing accounts, and modify the user's name, password and account level. The **Admin** account level cannot be deleted however; the administrator's account name and administrator's account password can be change. Up to 3 user accounts (Operator/Guest) can be created.

Account

In the **Account** menu press **CH1↑, CH2↓, CH3←, CH4→** using the front panel, RC or hover the mouse over the cubical(s) under **Account, Password**, and **Level**, a pinkish rectangular cursor will appear.

To setup a user account, move to a cubical under **Account** and then press **Select/Enter** on the front panel, RC or left mouse click. Input the name of the user account as shown below. The user account name can be up to 10 digits long and can be of any combinations of numbers, letters and symbols. Click **Shift** for upper letter case and symbols and click **Enter** when finish.

Password

To setup a **Password** for the user account, please repeat user account setup procedures above only select the **Password** cubical and a window will appear as shown below. The account **Password** can be up to 6 digits long and can be of any combinations of numbers, letters, and symbols. Click **Enter** when finish.

Level

After the user account and user password has been setup, press the **CH1↑, CH2↓, CH3←, CH4→** using the front panel, RC or hover the mouse over the cubical(s) under **Level** and a pinkish rectangular cursor will appear. To toggle the user's **Level** between Operator and Guest, press the **SEL/EDIT** button on the front panel, RC or hover the mouse over follow by a left mouse click. Press **Menu/ESC** button or right mouse click at anytime to exit out from **Account** setup window.

PASSWORD/PASSWORD SETUP

System administrator login; from the main **System** menu hover down over to **Password** and then press **Select/Enter** using the front panel, RC or left mouse click to toggle the password setting ON (system default) or OFF. Notice that **Password Setup** does not exist in the **System** menu under system administrator login.

For **Operator** or **Guest** login; from the main **System** menu browse to **Password Setup** and then press **Select/Enter** using the front panel, RC or left mouse click to change the **Operator** or **Guest** login password as illustrated above.
A current password must be input first, follow by the new password and confirm new password. If the current password and new password is inputted correctly, the **Password Changed** window will appear to indicate password changes has been made successfully.

If current password and/or new confirm password is incorrect, a **Mismatch Password** window will appear as shown below.

Press **Menu/ESC** button or right mouse click at anytime to cancel or exit out from **Password Setup** window.

KEYPAD TONE

From the main **System** menu browse down to **Keypad Tone** and then press **Select/Enter** using the front panel, RC or left mouse click on the red arrow buttons to toggle between ON or OFF (system default). If the **Keypad Tone** is set to ON will enable keypad tone during system operation. Turn the **Keypad Tone** to OFF will mute the keypad tone during system operation.

TIME SET

From the main **System** menu browse down to **Time Set** and then press **Select/Enter** using the front panel, RC or left mouse click to access the **Time Set** window as shown below. **Time Set** is use to change the time **Format** and **Time** setup. To change the time display format, move cursor to **Format** and then press the **Select/Enter** using the front panel, RC or left mouse click on the red arrows. There are three time display format:

**YYYY/MM/DD (default, Year/Month/Day)
**MM/DD/YYYY (Month/Day/Year)
**DD/MM/YYYY (Day/Month/Year)
To change the system time, move the cursor to **Time** and then press the **Select/Enter** on the front panel, RC or left mouse click to enter **Time** setup. Adjust to current time and date by pressing the **CH1↑/CH2↓** buttons on the front panel, RC or move the mouse to browse through the time and date. Press the **CH3←, CH4→** buttons on the front panel, RC or left mouse click on the red arrows to change the parameter. To accept and confirm time setting, press the **Menu/ESC** button on the front panel, RC or right mouse click on the mouse and then press/click on the **Apply**.

EVENT LIST

From the main **System** menu browse down to **Event List** and then press **Select/ Enter** using the front panel, RC or left mouse click to access the **Event List** window as shown above. The **Event List** shows the list of events that occurs in ascending order from recent file to past history files, the event Start date/time and event End date/time, color coded bars to designate event types, and the event Page number. The first **Event List** start with 001 and the maximum event list is 300. Any older events that surpass the 300 list will be archived in the hard drive; archived files can be found using playback **Time Search** query (reference page 47 Search:Playback). When browsing up and down the **Event List**, notice the Start/End time display at the bottom which shows the Start time of the file and the End time of the file. Below the Start/End time is Page information; the maximum numbers of **Event List** pages is 43. To change the event list page, browse down until the page changes or simply mouse click on the red arrows to flip through the pages.

To playback an event from the **Even List**, highlight the event and then press the **Play** button on the front panel, RC or double click on the mouse to start playback. Press the **Stop** button or right mouse click on screen to select the stop icon at anytime to exit out from the playback window. Press the **Menu/ESC** button on the front panel, RC or right mouse click on the mouse at anytime to exit out from the **Event List** window.

PTZ SETUP

From the main System menu browse down to **PTZ Setup** and then press **Select/**

Enter using the front panel, RC or left mouse click to access the **PTZ Setup** window as shown below.

LCDDVR4 supports 2 type of protocol cameras; Pelco-D and Pelco-P protocols. Adjust the RS485 setting according to the PTZ protocol camera and then match the Address, Protocol, and Baudrate setup to the camera settings.

To setup PTZ protocol camera, change the Channel to the PTZ camera. Set the dome address number or dome's identification number ranges from 0~255. Most protocol dome cameras are default to address 1, be sure to set the address to match with the actual dome address setting. Next, select the type of PTZ protocol dome camera used; whether it is Pelco-D or Pelco-P as other protocols is not supported. Finally, change the Baudrate according to the PTZ requirement setting. Here is an overview on how PTZ Setup should be configured:

CHANEL:Select a camera channel where PTZ camera is connected.

ADDRESS:Dome's address **"0-255" (PELCO-D)** and**"0-31" (PELCO-P))**, the system default setting is 1 (Set based on the dome's address).

PROTOCOL: Select **"PELCO-D"**, **"PELCO-P"**(Set based on dome's protocol).

BAUD RATE: Press **SEL/EDIT** button on the front panel, RC or left mouse click on red arrows to adjust the value: **1200bps, 2400bps**, **4800bps** (default), **9600bps**, or **19200bps** (Set based on the dome's baud rate requirement, reference dome manual as needed).

SPEED: Ranges from **1-10**, this is the speed of the dome movements when it is rotating from one position to the next. Set the speed to 10 for fast dome rotation-

al speed and set to 1 to slow the rotational speed, the system default setting is 8. **PRESET**: Ranges from 1~32 for **PELCO-D** protocol camera and 1~255 for **PELCO-P** protocol camera, the system default setting is 1 for both protocols. When **0** is display, the preset is not use.

Press the **Menu/ESC** button on the front panel, RC or right mouse click on the mouse at anytime to exit out from the **PTZ setup** window.

Button function Front Panel / Remote Control

[SEL/EDIT]: To select or increase value.

[Up][Down]:Move the cursor up and down accordingly.

[REC]:Reduce Value or Auto-scan.

[Ch1][Ch2]: Move the dome upwards and downwards.

[Ch3][Ch4]: Move the dome leftwards and rightwards, increase/decrease value.

[STOP]:Stop the dome.

[REW][FWD]:Zoom.

[Pause][Play]: Focus.

Mouse function

Left Mouse button: Click the icon "►" or "◄" to adjust value.

Right Mouse button: Previous.

Preset setup

To setup a preset position for the dome; choose a **Preset** 1~255 (depend on protocol), click on **PTZ mode**, right mouse click to bring up the Icon function (below), adjust to desire angle view, click on exit, and then press on **Save Preset**. To check or recall the preset, select the **Preset** and then click on Call Preset.

Note: The address, protocol and baud rate of DVR should be setup according to the dome's requirement, please reference the dome's user's manual for setup detail.

Auto scan can be performed when presets are configured within cruise locus.

Then press [Select] button to finish the order of **Auto** scan, the dome will run on presets positions unless the [STOP]button is pressed on to stop **Auto** scan.

PTZ Mode

Select **PTZ mode** and then right mouse click in PTZ mode to bring up the **Icon function** window as shown below.

Icon function window

▲▼►◄: are directional movements for the dome: upward, downward, leftward and rightward.

■: Stop the dome from moving in auto scan mode.

: Focus image.

: Zoom in/out of view.

: Auto scan, require preset setup.

: Previous or exit from PTZ mode.

Attention

Once the **Auto** scan is activated to automatically scan through all the preset positions, the [STOP] button in PTZ mode must be press to exit out from **Auto** scan mode. Just by exiting out from **Auto** scan without pressing the [STOP] button will not stop the auto scanning.

From live view display, press the [PTZ] button on the front panel, RC or right mouse click to select PTZ icon and then right click again to enter **PTZ mode**, and then operate on screen **Icon function** to control the dome. Press the [PTZ] button again to exit out from the **PTZ mode**.

F/W UPGRADE

From the main **System** menu browse down to **F/W upgrade** and then press **Select/Enter** using the front panel, RC or left mouse click to access the **F/W**

upgrade searching window. The F/W upgrade is use to upgrade the firmware of LCDDVR4 system to its availability. To update the firmware, make sure the firmware file is copied into a root directory of a USB thumb drive or USB flash drive, insert the USB (thumb/flash) drive into the USB port on the right side of the DVR and then select **F/W upgrade** to proceed with firmware update. The **F/W upgrade** window will list the current version of firmware and the new firmware version, click on **Start** to proceed with firmware update or **Cancel** to exit from the **F/W upgrade** window.

[CAUTION]: Do not turn off the LCDDVR4 while the system is running firmware upgrade or system will corrupt and become malfunction. If the hard drive is not installed, firmware cannot be update. Stop recording before running firmware upgrade. Only system administrator can upgrade firmware.

LOAD SETUP DEFAULT

Load system default is restricted for operator and guest login account. Only the system administrator login can reset the LCDDVR4 to the system default setting. To **Load Setup Default**; ensure admin login, select **Load Setup Default** from the **Setup** menu, and input the system administrator password to complete system reset. Press the **Menu/ESC** button on the front panel, RC or right mouse click on the mouse at anytime to exit out from the **System** window.

SEARCH:PLAYBACK

From the main **System** menu browse down to **Search** and then press **Select/ Enter** using the front panel, RC or left mouse click to access the **Time Search** window will appear as shown below. Or, simply press the **PLAY** button (front panel, RC) from the live display screen to access **Time Search**. **Time Search** is a search query use to find event to playback. It is consist of **Start time** which displays the time/date of the earliest file that exists in the hard drive available for playback and **End time** which displays the time/date of the latest file that exists in the hard drive available for playback. To playback the earliest event press the **PLAY** button twice from the live display screen or simply click on **Search** button in the **Time Search** window. To search for a specific event or file; press the

CH1↑(UP)/CH2↓(DOWN) buttons on the front panel, RC or hover the mouse over the search query box, press the **SEL/EDIT** button or left mouse click to enter query, press the **CH3←/CH4→(SEL/EDIT)** buttons to decrease/increase or mouse click on the red arrows to decrease/increase time/date value, and then press the **Menu/ESC** button (front panel, RC) or right mouse click to confirm. Finally, press the **Search** to playback.

Playback Controls using front panel or remote control (RC):
Press the **CH1↑, CH2↑, CH3←, CH4→**, and **QUAD** buttons to change the camera view between channels 1 through QUAD screen display respectively. Press the ❙❙ (F-) button to pause and press ■ (STOP) button to stop playback. Press the►► FWD/►► (Z+) button to fast forward and press the◄◄ REW/◄◄ (Z-) button to rewind during playback. There are three levels of fast forwarding and three levels of rewinding playback speed as follow:

FF1-Press the ►► FWD button once to fast forward (FF) playback at 2 times the normal speed and the ►►green icon will display on screen to indicate 2X FF.

FF2 - Press the ►► FWD button twice to fast forward (FF) playback at 3 times the normal speed and the►►►green icon will display on screen to indicate 3X FF.

FF3 - Press the ►► FWD button three times to fast forward (FF) playback at 4 times the normal speed and the ►►►► green icon will display on screen to indicate 4X FF.

REW1 - Press the ◄◄ REW button once to rewind (REW) playback at 2 times the normal speed and the ◄◄ green icon will display on screen to indicate 2X REW.

REW2 - Press the ◄◄ REW button twice to rewind (REW) playback at 3

times the normal speed and the ◄◄◄ green icon will display on screen to indicate 3X REW.

REW3 - Press the ◄◄ REW button three times to rewind (REW) playback at 4 times the normal speed and the ◄◄◄◄ green icon will display on screen to indicate 4X REW.

To toggle between the fast forward and rewind speeds, press the **FWD** or **REW** buttons once, twice, or 3 times during playback to fast forward or rewind the video footage. Press the ► (PLAY) button at anytime to exit out from FF or REW mode and get back to normal (1X) playback speed. Press the UP(▲) / DOWN(▼) buttons at any time to playback frame-by-frame; the UP(▲) button to fast forward (FF) one frame at a time and the DOWN(▼) button to rewind (REW) one frame at a time. Press the **MENU/ESC** button to backup the playback footage, see **BACKUP to USB Memory Stick** below.

Note: The fast forward and rewind playback speed varies depending on recorded frame rate, the recorded quality setting, & the number of channels recorded.

Playback Controls using mouse: Left click on the channel image to view each channel in full screen display and left click again on the full screen display for **QUAD** split screen view. Right click anywhere on the playback screen to bring up the playback control panel window as illustrated on the right. Click on the ▌▌◄ or ►▌▌ buttons to REW/FF one frame at a time or frame-by-frame playback. Click ◄◄ or ►► button to rewind or fast forward respectively, see above for speed options. Click ►(PLAY), ▌▌ (PAUSE), or ■ (STOP) buttons to playback (or normal playback from REW, FF at anytime), pause, or stop playback footage. The BACKUP button is use to backup video footages to thumb drive or memory stick, see **BACKUP to USB Memory Stick** below for detail.

Note: Playback Controls using front panel or remote control (RC) and Playback Controls using mouse has the same practical playback functions only it uses different methods of controls.

BACKUP to USB Memory Stick

To backup to memory stick or thumb drive, in playback mode:

1. Use search query (Search:Playback above) to playback the file for backup.

2. Plug in a memory stick or thumb drive (fat 32 file formatted) into the USB port located on the right side of the LCDDVR4.

3. Press the **Menu/ESC** button on the front panel, RC or right mouse click anywhere on the playback screen to bring up the playback control window (as illustrated above) to select the BACKUP button and then a BACKUP window will appear as shown below.

IMPORTANT: After searching for an event to backup; DO NOT press the ❙❙ pause button, press the **Menu/ESC** button on front panel, RC or click on the BACKUP button (step 3 above) so that the **End Time** in the picture above still ticking forward. The difference between the **Start Time** and the **End Time** is the total time to backup.

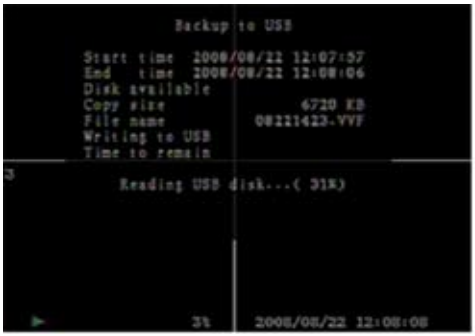
4. Next, hover (UP/DOWN button on front panel, RC or simply put the mouse cursor over) the cursor over the **End Time** and then press **SEL/EDIT** button on the front panel, RC or simply left mouse click on the End Time to increase the time to backup. Notice the **Size** field will increase each time the **End Time** field is selected or clicked on.

5. Next, hover down to **USB Copy** field and press **SEL/EDIT** button or left mouse click on **USB Copy** to continue the backup process.

6. It will take a few seconds to calculate and read the USB memory stick and then a **Backup to USB** window will appear as illustrated below.

Review the **Start Time**, **End Time**, **Copy Size**, and **File Name** (system generated and in VVF format) to be corrected (as shown above), then press or click

on **Start** to start video backup to external USB memory stick. Press or click on **Cancel** to cancel the USB backup process.
The backup process can take anywhere from a few seconds to a few minutes



long depending on the backup size selected for backup.

7.When the backup is completed, press or click on Exit to exit out of Backup to

For example: to backup a 1 minute file or about 27MB size will take approximately 1 minute and 50 seconds on average.

USB window and back to live display screen as shown below.
8. Finally, remove the USB memory stick from the side of the DVR, connect the

memory stick to a PC, and playback using the software provided, see **PC Playback** below for detail.

LANGUAGE

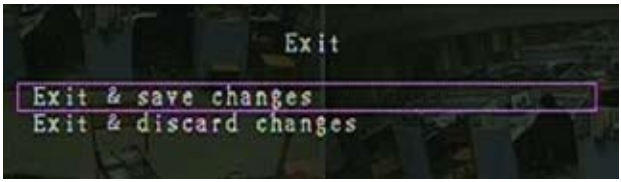
LCDDVR4 supports multi-lingual on screen display. From the main **Setup** menu browse down to **Language** and then press **Select/Enter** using the front panel, RC or left mouse click to access the **Language** window as shown on the right. Choose desire language; English, Italiano, Polski, Espanol, Francais, Greco, Deutsch, Nederlands, Portugues, and Turkce. Press the **Menu/ESC** button on the front panel, RC or right mouse click on the mouse at anytime to exit out from the **Language** window.

LOGOUT

Logout is use to log user out of the system so that other user accounts can login. For example, if the system admin is currently logged in to the system, select or press the **Logout** to log the admin out of the DVR. Or, if the system **Password** is OFF, **Logout** will automatically turns the **Password** back ON so the next login requires the user's ID and user's password (Admin/Operator/Guest). Press the **Menu/ESC** button on the front panel, RC or right mouse click on the mouse at anytime to exit out from the **Setup** window.

EXIT

Exit is use to exit out from the system setting. From the main **Setup** menu browse down to **Exit** and then press **Select/Enter** using the front panel, RC or left mouse click to exit out from the **Setup** window and a confirmation exit window will appear as shown below. To **Exit** and save the changes, select the **Exit & Save Changes**, to exit without saving the changes, select the **Exit & Discard Changes.**



SOFTWARE INSTALLATION

To install the PC player for windows, please follow the necessary steps below. PC player software is use to playback the backup video files from the LCDDVR4 and it is included inside the CD provided.

Note: Software compatible with windows 2000, XP, Vista, & 7, not compatible with windows running on 64-bit operation system.

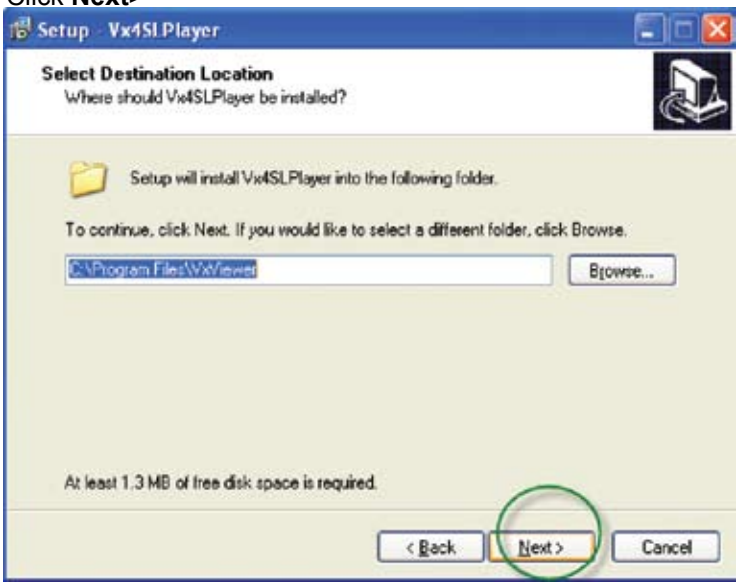
Step 1: Put the software included in the CD into the CD-ROM drive.

Step2: Go to the CD-ROM drive titled **LCDDVR4 Player** root directory and double click on Vx4SLPlayerSetup.exe to start the software installation process as shown below.

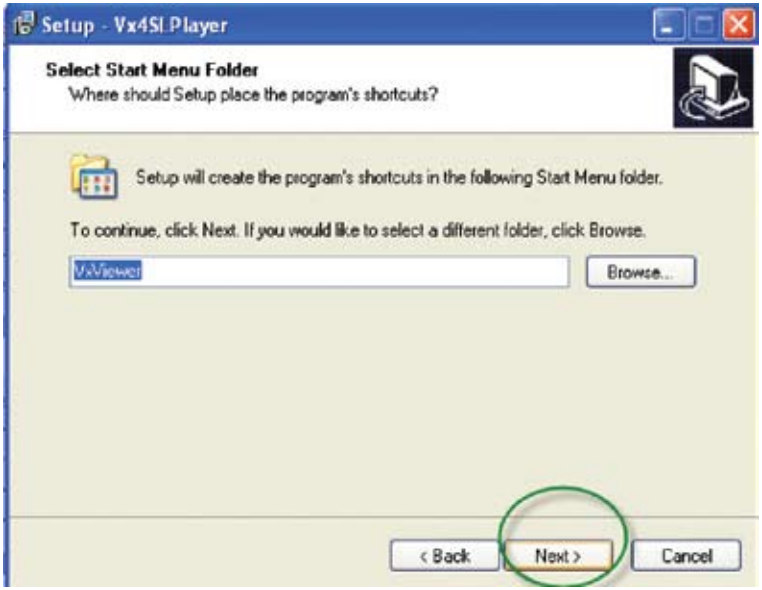
Step 3: Click on NEXT for the next 4 setup procedures as follow.
Click **Next>**

Setup - Vx4SLPlayer
Welcome to the Vx4SLPlayer Setup Wizard
This will install Vx4SLPlayer 1.5.0 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

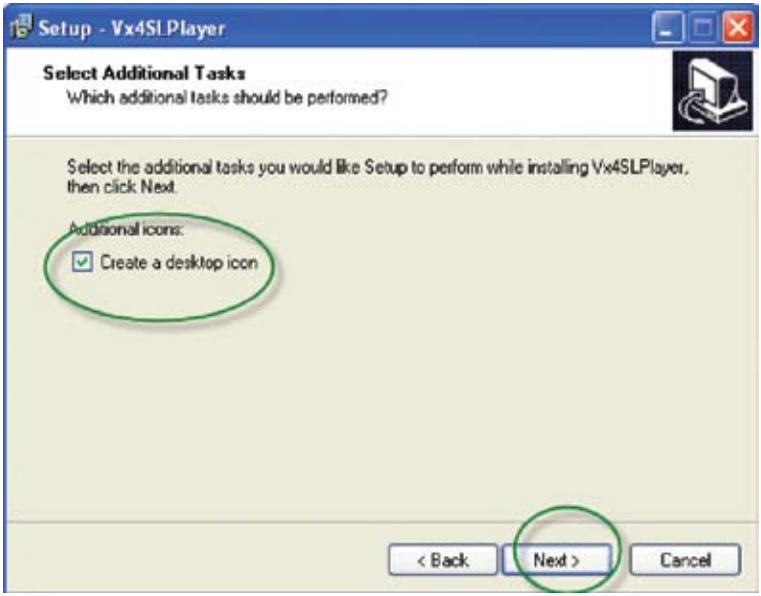
Click **Next>**


Setup - Vx4SLPlayer
Select Destination Location
Where should Vx4SLPlayer be installed?
Setup will install Vx4SLPlayer into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\VxViewer
Browse...
At least 1.3 MB of free disk space is required.
< Back
Next >
Cancel

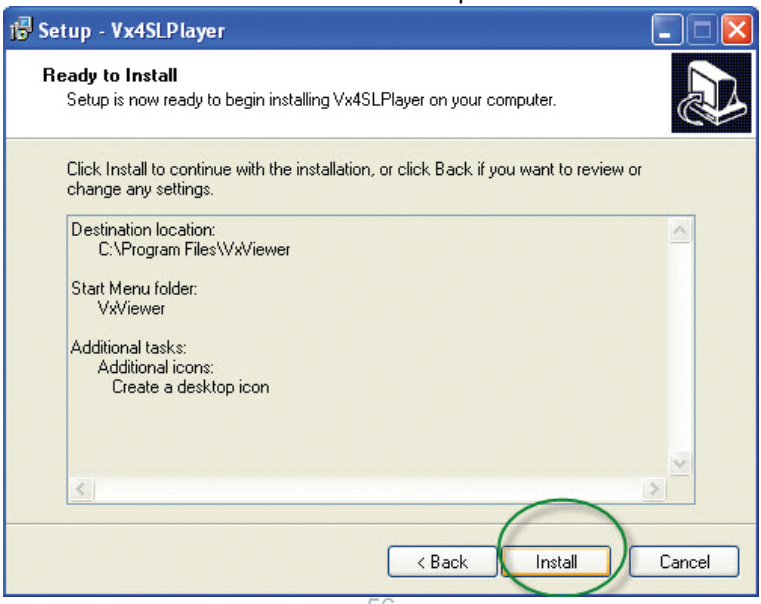
Click **Next>**


Setup - Vx4SLPlayer
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
VxViewer
Browse...
< Back
Next >
Cancel

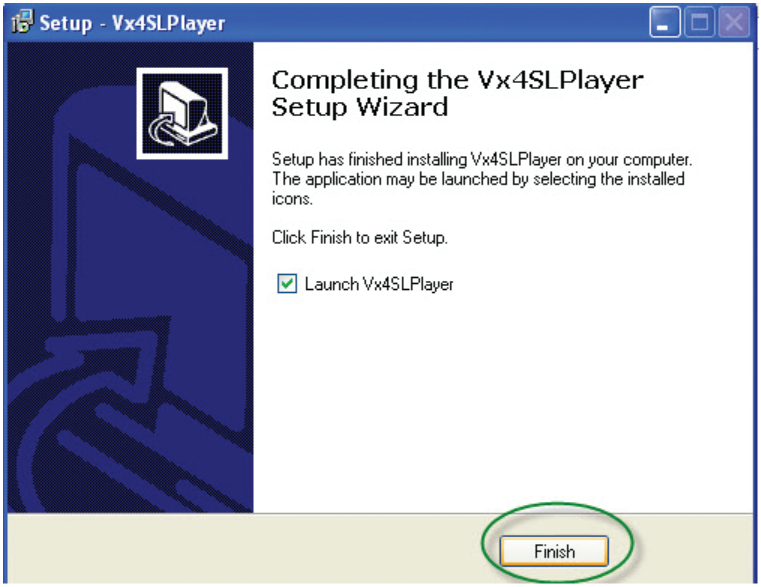
Check “**Create a desktop icon**” and then click **Next>**.


Setup - Vx4SLPlayer
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Vx4SLPlayer, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

Step 4: Click on **Install** to start the installation process as illustrated below.


Setup - Vx4SLPlayer
Ready to Install
Setup is now ready to begin installing Vx4SLPlayer on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\VxViewer
Start Menu folder:
VxViewer
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

Step 5: Installation is complete, click on Finish as shown below.


Setup - Vx4SLPlayer
Completing the Vx4SLPlayer Setup Wizard
Setup has finished installing Vx4SLPlayer on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch Vx4SLPlayer
Finish

SOFTWARE UNINSTALLATION

To uninstall PC player software, go into **c:\Program Files\VxViewer** folder and then double click on **unins000.exe** and click on **Yes** and follow through to uninstall VxViewer, as illustrated below.

PC PLAYBACK

Software Basic and Playback

Double click the

icon located on the desktop to execute PC playback software and the GUI (Graphic User Interface) window will appear as shown below.

1. Open File	2. Fast Backward (Rewind)
3. Play Reverse	4. Previous Frame
5. Pause	6. Next Frame
7. Play	8. Fast Forward
9. Still Capture	10. Split 1 (Single Full Screen)
11. Split 4 (QUAD)	12. Volume (Scrollable)
13. Mute On/Off	14. Play Bar (Scrollable)
15. Minimize Window	16. Close Program

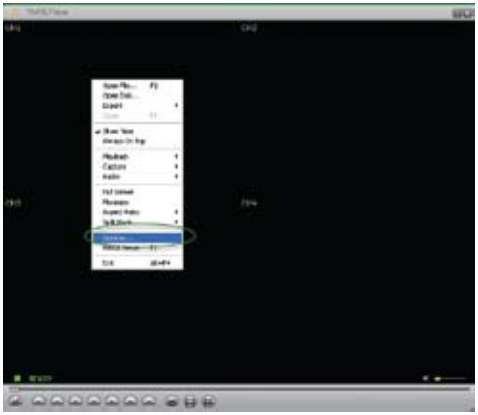
The LCDDVR4 backup files are in *.VVF file format which is a proprietary format (not standard format) and can only be playback using the software provided. To playback *.VVF file, click on the **Open File** button or **Open File** or **F2** (Contextual Menu-right mouse click) and browse to the *.VVF file, as shown below. Locate the backup *.VVF file, click on it to highlight and then click on **Open** to start to playback the selected file.

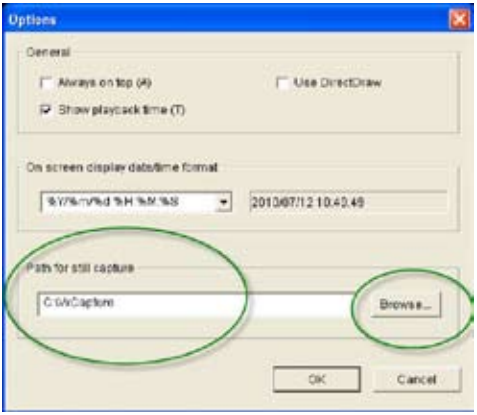
During video playback use the **Playback Control Buttons** located at the bottom left of the player as shown below. Press on **Fast Backward** or **Fast Forward** button once to rewind or fast forward at 2x the normal speed, press twice for 4x, press three times for 8x, press four times for 16x, press five times for 32x, and press six times for 64x. An alternative and faster way to fast forward and rewind is to hold down the left mouse on the **Play Bar** (as circled in the second picture below), drag the **Play Bar** forward or backward and then press the **Play** button to initial playback. Press **Play** or **Play Reverse** button at anytime to play or play backward at normal speed.

Click on the **Mute On/Off** button (as circled in the picture above) to playback with audio or without audio sound. When mute is **Off**, use the **Volume** scroll bar to adjust the volume level as desire.

Click on the **Pause** button (center) to pause the video, click on the **Previous Frame** button (left) to step back one frame at a time, and click on the **Next Frame** button (right) to step forward one frame at a time. To constantly move one frame-by-frame, press the **Previous Frame** or **Next Frame** repetitively. Press **Play** or **Play Reverse** button at anytime to play or play backward at normal speed.

Click on the **Still Capture** to snapshoot the playback image(s) image in BMP (bitmap) picture format. Still capture saves the BMP file into a default directory in **C:\VxCapture** folder in which was automatically generated when installing the playback software. The image capture directory can also be change by right





mouse click anywhere on the software window, select **Options**, modify the **Path for still capture** by clicking on the **Browse** button, and then browse to a folder as illustrated above.

Click on the **Split 1** or the **Split 4** button to view single camera in a single full screen or 4 split screen mode respectively. Single full and quad screen can be use in both live view or in playback mode.

Contextual Menu

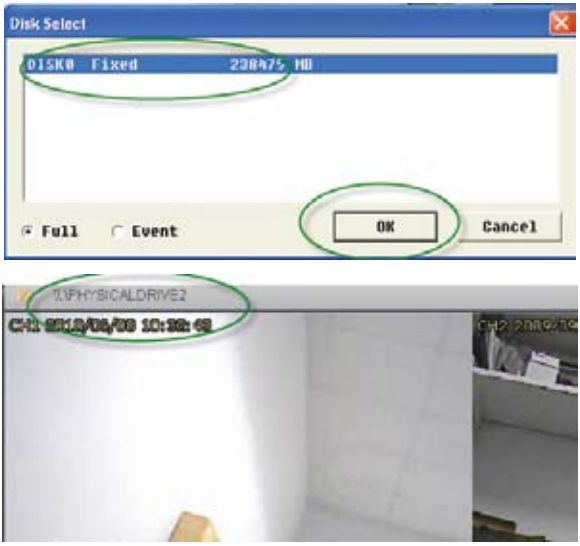
To access the **Contextual Menu,** right mouse click anywhere on the Vx4SLPlayer window and the **Contextual Menu** will appear as shown below.

<u>Open File… F2</u>

To playback the backup .VVF file(s), select **Open File** or **F2** in the **Contextual Menu** to browse for the file to playback.

<u>Open Disk…</u>

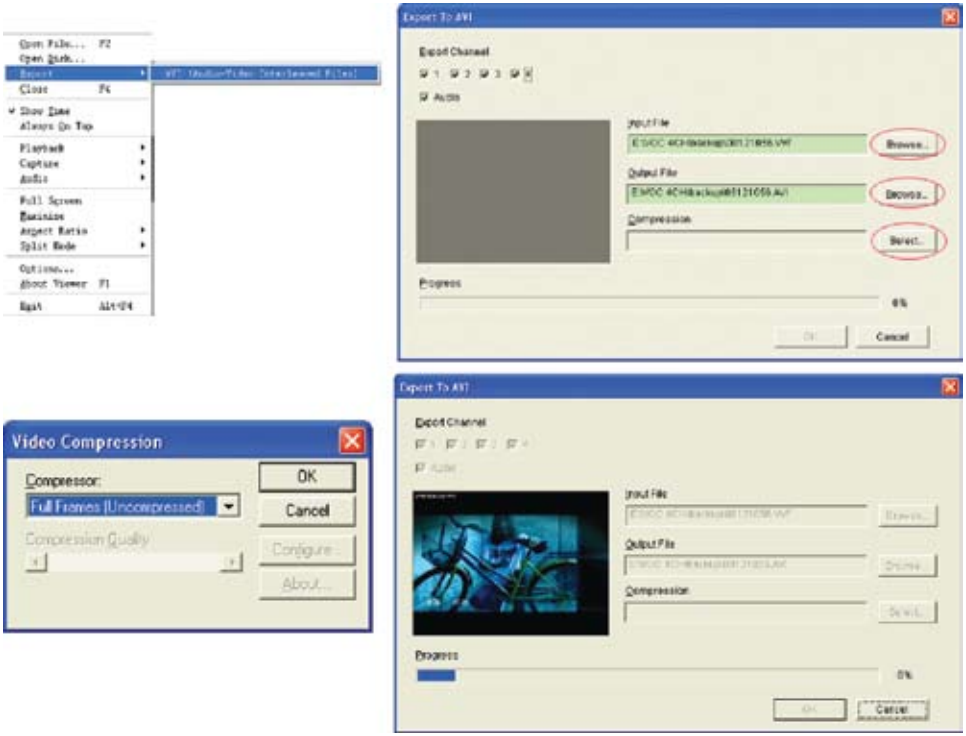
If the LCDDVR4 fails to boot or operate, remove the hard drive from the LCDDVR4; connect it into a PC, then select the **Open Disk** option in the **Contextual Menu**, highlight disk found and the click on **OK** to scan for the DVR hard drive and playback as shown below.



Note: Open Disk playback is a physical disk playback which requires LCDDVR4 hard drive to be connected directly into a PC or otherwise, Open Disk option feature will not work and fail to detect HDD.

Export (*.VVF to *.AVI Conversion)

In the **Contextual Menu**, click on **Export** and then select **AVI (Audio-Video Interleaved Files)** and an **Export To AVI** window will appears as illustrated below. In the **Export TO AVI** window; select **Export Channel** (1~4), select or deselect **Audio**, click Browse... to browse for *.VVF file to convert, click Browse... to browse for a location for the converted file to be stored (in **Save As** window, give it a file name and click **Save**), click Browse... to select **Video Compression** (recommended: Full Frames (Uncompressed, click **OK**), and finally click on OK to start the conversion process. Once the percentage reaches 100%, the conversion is successful, click on OK when done. AVI format is a standard file format and is compatible with most PC player, i.e. Windows Media Player, Media Player Classic, and etc.



Note: It is recommended to select **Uncompressed in Video Compression**. However, please be sure to test all the different compression type available and to ensure the selected compression works; compression availability varies depending on computer.

Close or F4

The **Close** or **F4** command will close out from or exit from the existing playback file and most of the playback controls in the lower left will be grayed out pending for **Open File**.

Show Time

Select **Show Time** to display the time and date of each cameras in the upper right hand corner of the screen. Deselect **Show Time** to disable the time and date display stamp.

Always On Top

Select **Always On Top** to put the Vx4SLPlayer window on top of all other windows on the desktop. If this option is not selected other windows application(s) can cover over the Vx4SLPlayer window.

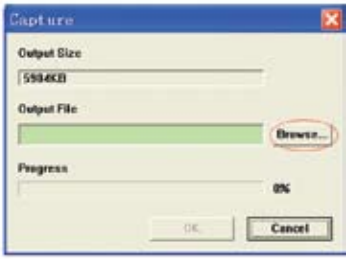
Playback

Please reference playback on page 47 above for detail.

Play	
Play Reverse	
Pause	Ctrl + P
Fast Forward	
Fast Rewind	
Next Frame	Ctrl + N
Previous Frame	Ctrl + V
Speed Normal	Shift + Z
Speed Up	Shift + C
Speed Down	Shift + X

Capture

Capture is use to shorten the video clip into a shorter segment clip, VVF to VVF file. To **Capture** shorter clip; pause playback, drag **Play Bar** to desire start time and select **Mark In** under **Capture** in the **Contextual Menu**. Then drag Play Bar forward to a desire end time, select **Mark Out** under **Capture** in the **Contextual Menu** and **Export** under **Capture** will become selectable for execution as illustrated below. Select **Caption\Export** from the **Contextual Menu** to proceed and a **Capture** window will appear. Next, click on Browse... to locate where to save the file, give it a file name (VVF), click **OK**, and OK again to begin rendering. Upon completion, click on OK to finish and exit out of Export Complete window.



Audio

Select **Volume UP** and **Volume Down** to adjust the volume level as accordingly. Select **Mute On/Off** to enable or disable the audio playback feature as shown below. When mute is **Off**, use the **Volume** scroll bar to adjust the volume to a desire level.

Full Screen

Select **Full Screen** to view playback in a full screen display. In **Full Screen** view, **Contextual Menu** becomes very useful as the **Playback Control Buttons** in the lower left cannot be use.

Maximize

Select **Maximize** to display full screen with **Playback Control Buttons**.

Aspect Ratio

Select between **640 x 448** (default) or **640 x 544** aspect ratio display for playback.

Split Mode

Select **Split1** or **Split 4** (default) to toggle between single camera full screen and Quad camera full screen display.

Options

Options is use to setup **Always on top (A), Show playback time (T), Use DirectDraw, On screen display date/time format,** and **Path for still capture.**

☑ Always on top (A): Check to display Vx4SLPlayer window always on top of other application windows. Uncheck to allow other application windows to overlap Vx4SLPlayer window.

☑ Use DirectDraw: Check if the PC's graphic card supports DirectDraw to enhance playback footage; the images can be displayed via the method DirectDraw on the PC's graphic card.

Note: Select this option only if the graphic card supports DirectDraw.

☑ Show playback time (T): Check to display time/date during playback. Uncheck this option to disable the time/date display during playback.
Select from the drop down menu of **On screen display date/time format** to display different date/time format. Click Browse... under Path for still capture to select a folder location to store snapshoot images, default C:\VxCapture. Click on OK to accept and exit out from **Options** setup window.

About Viewer or F1
Select **About Viewer** or press **F1** to display the player's version of release, name of software and copyright information.

Exit or Alt+F4
Select **Exit** or press **Alt+F4** to exit or quit out of Vx4SLPlayer.

APPENDIX
RECORD TIME

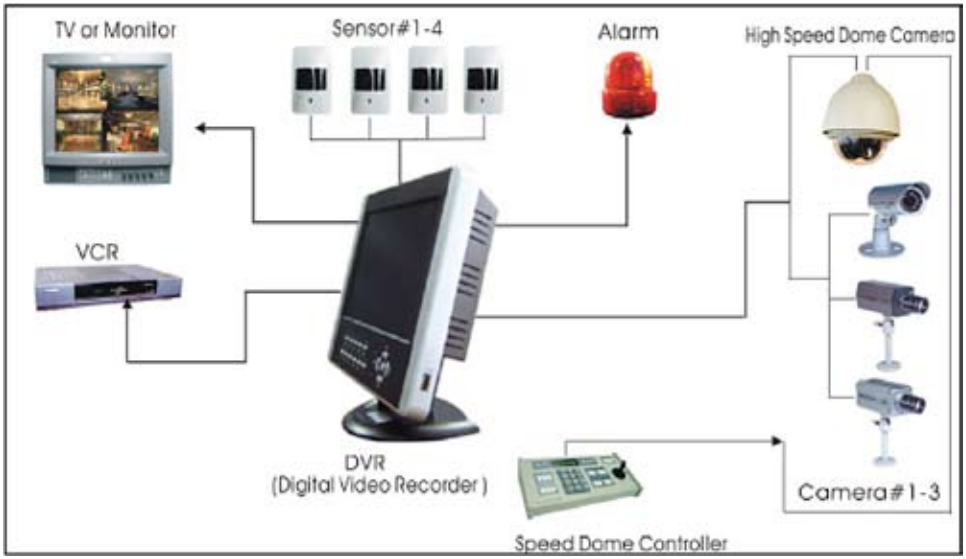
Recording Chart (Models: LCDDVR4-80/-320)						
Format	**Record Speed**	**Quality**	**Data Size**	**Data Rate**	**HDD(SATA)**	
			KB/Frame	GB/Hour	80GB(Hours)	320GB(Hours)
NTSC	60 fps	High	26	5.4	15	60
		Normal	16	3.3	24	96
		Low	13	2.7	30	120
	30fps (default)	High	26	2.8	28	112
		Normal (default)	16	1.6	50	200
		Low	13	1.3	62	248
	15fps	High	26	1.3	62	248
		Normal	16	0.8	100	400
		Low	13	0.7	114	456
PAL	50fps	High	26	4.4	18	73
		Normal	16	2.8	29	114
		Low	13	2.3	35	139
	25fps (default)	High	26	2.4	33	133
		Normal (default)	16	1.6	50	200
		Low	13	1.3	32	246
	12fps	High	26	1.1	73	292
		Normal	16	0.7	114	456
		Low	13	0.5	160	640

SPECIFICATIONS

ITEM		DESCRIPTION	NOTE
Monitor		10.2” COLOR LCD, 800X480, 300:1, 450NIT, VIEW ANGLE 120º	Desktop or Wall-mount
Video Format		NTSC / PAL	
Operation System		Linux	STAND-ALONE
OSD		Support Multilingual	
Camera Input Channel		4 channel Composite BNC	
Video Output Channel		1 channel Composite BNC	
Recording Frame Rate		NTSC: Max 60fps (total), 30fpt (each ch) PAL: Max 50fps (total), 25fps (each ch)	
Record Mode		Manual Rec., Time schedule, Motion detection, Sensor Rec., Motion detection and both Sensor & Motion detection	
Resolution	Display	NTSC: 720 x 480 PAL: 720 x 576	
	Recording	NTSC: 640×224 PAL: 640×272	
Compression Method		Enhanced MJPEG (13-20K Bytes/frame)	Video Quality: Low @ 13K Bytes; Normal @ 16K Bytes; High @ 20K Bytes
HDD Support		SATA HDD×1	TBytes support
Search	Method	Time, Event	
	Full Screen	YES	
Sensor, Alarm		4 Sensor Input (Normal Open / Normal Close) 1 Alarm Output	
PTZ(RS485)		YES	PELCO-D/PELCO-P

Audio Input	2 Channel Composite RCA	
Audio Output	1 Channel Composite RCA	
USB	YES	For backup & software update
Remote Control	38KHz IR	
PS/2 Mouse	3 Button Optical Mouse	
Power	Input: 100~240VAC Output: DC12V 5A, positive inside.	
Dimensions (L x W x H)	290 x 230 x 70 mm (11.4” x 9” x 2.8”)	Not including bracket
Weights (Net/Gross)	6 lbs (LCDDVR only) / 8.60 lbs	Including hard drive (1 lb)

SYSTEM CONNECT MAP DIAGRAM



COMPATIBLE USB FLASHDRIVE

Here is a list of flash drives that has been tested to comply with LCDDVR4:

MAKER	MODEL	SIZE
SONY	MICROVAULT (SOK-USM1GJ)	1GB
MEMOREX	Travel drive	512MB
MEMOREX	Travel drive	2GB
SAMSUNG	SUM-LCB1	1GB
TRANSCEND	JF V30	2GB
APACER	Weblink (SYE5003358)	2GB
SANDISK	CRUZER micro	4GB
FLEX	FD-02	1GB
KINGSTON	Data Traveler	2GB
KINGSTON	Data Traveler	1GB
LEMON	LEMON USB Drive	1GB

Q & A

1) I cannot backup to my USB thumb drive or flash drive?

Sometimes power fluctuation can case noise to occur in the USB line which can cause system error during file/data transfer. In such case re-transfer of data may require. However, if data backup does not transfer or does not oper ate normal please do the following:

A) If backup fail: Use a computer to reformat the flash drive or thumb drive as FAT32 file system, avoid using FAT16 file system format.
B) If backup fail: Plug in the flash drive to the DVR and then reboot the DVR.
C) If backup fail: The USB device may not be compatible, please check compatibility chart below.

2) I cannot playback the VVF files on my computer?

If PC playback fails do the following:

A) Plug the USB drive into another available USB port on the computer. Ensure the USB is one of the built-in ports on the computer. Check if the flash drive or thumb drive mount on the computer.
B) Re-install the player software from the CD.

3) I cannot load system default?

Boot up the DVR and then press the QUAD button on the front of the DVR 20 times will reset LCDDVR4 to manufacturer's default setting. Please be sure to jot down any information before resetting the DVR, ie IP address, Subnet, Gateway, etc.

4) When motion and sensor time schedule is active; will manual recording contin ues to operate?

Yes, manual recording will continue to operate even when motion and sensor schedule is set or activated.

5) How large of a hard drive can i use with LCDDVR4 unit?

LCDDVR4 should support hard drive capacity into the terabyte; a 2.5TB drive capacity has been tested to have worked and performed well.

6) Does the PC playback software (Vx4SLPlayer) work with Windows Vista 64-bit or Windows 7 64-bit operation system?

No, the Vx4SLPlayer is currently not supporting 64-bit operation system. However the playback software is fully compatible with Windows 2000, XP, Vista and 7 operation system running 32-bit.

www.securitymaninc.com